

Amendments to the Description

Please replace the paragraph from page 2 lines 17 to 26 with the following

In a preferred implementation of the invention, the porous member is moulded from a mixture of the precursor in powder form and a suitable binder also in powder form, and the reaction solution is dispersed in the pores of the porous member. Thus the precursor may be selected from, by way of non-limitative example, N,N'-diphenyl-1,4-phenylenediamine, N,N' dimethylphenyl-1,4-diamine, catechol and dopamine, while the binder may be an epoxy resin, such as a 12% hardener DURCISSEUR MA2. Additionally, the mixture may further include a powder conductivity agent, such as metal powder or carbon powder. Advantageously, the binder, the precursor and the conductivity agent are mixed in proportions of about 1:1.4:1.6 by weight.

Please replace the paragraph from page 6 lines 10 to 17 with the following

The porous block 32 is moulded from a mixture of a powdered epoxy resin binder in the form of a 12% hardener DURCISSEUR MA2, a powdered precursor in the form of N,N'-diphenyl-1,4-phenylenediamine and powdered carbon, in the proportions 1.0:1.4:1.6 by weight. Other proportions are possible, such as 1.0:1.0:2.0, depending on the concentration range of the hydrogen sulphide or thiols. For example, experiments have shown that the proportions 1.0:1.4:1.6 provide optimum sensitivity to hydrogen sulphide in concentrations in the range 0.7 ppm to 3.5ppm.